

Att'y Ref. No. 003-090

U.S. App. No.: 10/676,099ABSTRACT OF THE DISCLOSURE

A method for measuring partial discharges in windings of electrical devices ~~comprised by the following steps: Applying includes applying~~ voltages having high frequency components to the winding of the electrical device, detecting partial discharge signals by means of a tuned VHF and/or UHF electromagnetic sensor located close to the electrical device, and evaluating the detected sensor signals by means of electrical hardware or software. Further, a VHF and/or UHF electromagnetic sensor for measuring partial discharges in windings of electrical devices is ~~described wherein includes~~ an antenna made of a coaxial cable ~~is provided as an~~ electromagnetic sensor. ~~The present invention provides an improved measuring method and sensor device, which avoid the drawbacks of the prior art.~~ The improved measuring method provides more detailed information about the status of the insulation system and clear short-circuits during the testing are not necessary ~~any more~~. The proposed sensor provides a surprisingly simple and inexpensive solution.

{Fig. 1}

[Page 2 of 15]